

# CURRICULUM VITÆ

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## Citizenship

Chilean, Italian, Permanent resident of the USA

## Education

*PhD in Economics*, Université Laval, Québec, Canada, 2010

*MSc in Transportation Systems Engineering*, Universidad de Chile, Santiago, Chile, 2001

*Professional degree\* in Industrial Engineering*, Universidad de Chile, Santiago, Chile, 2001

(\*A degree type granted after 2 years of additional coursework following successful completion of a BSc)

*BSc in Industrial Engineering*, Universidad de Chile, Santiago, Chile, 1999

## Professional Appointments

Tenured Associate Professor, School of Civil and Environmental Engineering, Cornell University, 2017-present

David Croll Fellow Assistant Professor, School of Civil and Environmental Engineering, Cornell University, 2011-2016

*Graduate Fields*: Civil and Environmental Engineering, Systems Engineering, Regional Science, Public Affairs; Atkinson Center Faculty Fellow

## Research Visits

Visiting Research Fellow, Institute for Transport Studies, University of Leeds, Leeds, UK, February-May 2018.

Visiting Scholar, Penn Institute for Urban Research (PennIUR), University of Pennsylvania, Philadelphia, PA, July-December 2017.

Visiting Scientist, Zentrum für Europäische Wirtschaftsforschung (ZEW, Centre for European Economic Research), Mannheim, Germany. June-July 2011, December 2013

Visiting Scientist, Università degli Studi Roma Tre (Roma Tre University), Facoltà di Scienze Politiche, Centro Interdipartimentale di Ricerca sull'Economia delle Istituzioni (Interdepartmental Research Center for the Economics of Institutions), Rome, Italy. May-June 2013

Visiting Scientist, Transportation Sustainability Research Center, Institute of Transportation Studies, UC Berkeley. May-June 2012

**Short research visits**: Charles University, Prague (January 2018) | Leibniz Institute of Ecological Urban and Regional Development, Dresden (January 2018) | University of Chile (October 2017) | HEC Montréal (October 2017)

## Academic Honors and Awards

National Science Foundation CAREER Award, 2013

David Croll Sesquicentennial Faculty Fellowship, 2012 (Gift to launch Cornell's Faculty Renewal Initiative. Donor: Trustee David Croll '70.)

Barry McNutt Award in recognition of the 2008 TRB paper (Bolduc, Boucher, and Daziano, 2008) that best met the standards and spirit fostered by Barry McNutt. The award recognizes outstanding contributions to transportation and energy policy analysis and to the development of efficient and effective federal policies related to the automotive sector. This award is given annually by the Energy and Alternative Fuels Committees of the Transportation Research Board (TRB) of the National Academies.

### **Affiliations**

Atkinson Center for a Sustainable Future, Cornell University, Faculty Fellow

Centre for Data and Analysis in Transportation CDAT and Groupe de recherche en économie de l'énergie, de l'environnement et des ressources naturelles GREEN, Université Laval

Elected regular board member of the International Association for Travel Behaviour Research (IATBR), for the term 2018-2021

International Transportation Economics Association (ITEA)

International Steering Committee for Travel Survey Conferences ISCTSC, member of the North American Chapter (4 members in total, by invitation)

Member of the Transportation Research Board (TRB) ADB40 committee (Transportation Demand Forecasting)

Government of Canada Scholars' Alumni Association GCSAA

Association des diplômés de l'Université Laval

### **Publications (Student co-authors highlighted in bold)**

#### *Refereed Archival*

**Bansal, P**, RA Daziano and E Guerra. 2018. A minorization-maximization (MM) algorithm for semiparametric logit models: bottlenecks, extensions, and comparisons. *Transportation Research Part B* 115, 17-40.

**Wang, C, J Sun, R Russell** and RA Daziano. 2018. Analyzing willingness to improve the resilience of New York City's transportation system. *Transport Policy* 69, 10-19.

**Bansal, P**, RA Daziano, M Achtnicht. 2017. Comparison of Parametric and Semiparametric Representations of Unobserved Taste Heterogeneity in Choice Modeling. *Journal of Choice Modelling* 27, 97-113.

**Bansal, P**, RA Daziano, M Achtnicht. 2017. Extending the logit-mixed logit model for a combination of random and fixed parameters. *Journal of Choice Modelling* 27, 88-96.

**Sarrias, MA** and RA Daziano. 2017. Individual-Specific Point and Interval Conditional Estimates of Latent Class Logit Parameters. *Journal of Choice Modelling* 27, 50-61.

Daziano, RA, EDO Waygood, Z Patterson, M Braun Kohlová. 2017. Increasing the influence of CO<sub>2</sub> emissions information on car purchase. *Journal of Cleaner Production* 164, 861-871.

Tirachini, A, R Hurtubia, T Dekker, RA Daziano. 2017. Estimation of crowding discomfort in public transport: Results from Santiago de Chile. *Transportation Research Part A: Policy and Practice* 103, 311-326.

**Sarrias, MA** and RA Daziano. 2017. Multinomial Logit Models with Continuous and Discrete Individual Heterogeneity in R: The gmn1 package. *Journal of Statistical Software* 79(2), 1-46.

Patil, PN, SK Dubey, AR Pinjari, E Cherchi, R Daziano, CR Bhat. 2017. Simulation evaluation of emerging estimation techniques for multinomial probit models. *Journal of Choice Modelling* 23, 9-20.

Daziano, RA, MA Sarrias and B Leard. 2017. Are consumers willing to pay to let cars drive for them? Analyzing response to autonomous vehicles. *Transportation Research Part C: Emerging Technologies* 78, 150-164.

- Rickard, LN, GM Eosco, CW Scherer, JP Schuldt, J Yang and RA Daziano. 2017. Sizing Up a Superstorm: Exploring the Role of Recalled Experience and Attribution of Responsibility in Judgments of Future Hurricane Risk. *Risk Analysis* (Published online doi:10.1111/risa.12779)
- Rickard, LN, JP Schuldt, GM Eosco, CW Scherer, and RA Daziano. 2017. The proof is in the picture: The influence of imagery and experience in perceptions of hurricane messaging. *Weather, Climate and Society* (Published online doi:10.1175/WCAS-D-16-0048.1)
- Chiew, E**, RA Daziano and LA Garrow. 2017. Bayesian estimation of hazard models of airline passengers' cancellation behavior. *Transportation Research Part A: Policy and Practice* 96, 154-167.
- Chiew, E** and RA Daziano. 2016. A Bayes multinomial probit model for random consumer-surplus maximization. *Journal of Choice Modelling* 21, 56-59.
- Muñoz, B**, A Monzón and RA Daziano. 2016. The increasing role of latent variable in modelling bicycle mode choice. *Transport Reviews* 36(6), 737-771.
- Daziano, RA. 2015. Inference on mode preferences, vehicle purchases, and the energy paradox using a Bayesian structural choice model. *Transportation Research Part B*, 76, 1-26.
- Daziano, RA and LI Rizzi. 2015. Analyzing the impact of a fatality index on a discrete, interurban mode choice model with latent safety, security, and comfort. *Safety Science*, 78, 11-19.
- Motoaki, Y** and RA Daziano. 2015. A hybrid-choice latent-class model for the analysis of the effects of weather on cycling demand. *Transportation Research Part A* 75, 217-250.
- Wang, C** and RA Daziano. 2015. On the problem of measuring discount rates in intertemporal transportation choices. *Transportation* 42(6), 1019-1038.
- Motoaki, Y** and RA Daziano. 2015. An open research question: assessing goodness of fit of hybrid choice models. *Transportation Research Record* 2495, 131-141.
- Barla, P, N Lapiere, RA Daziano and M Herrmann. 2015. Reducing automobile dependency on campus: evaluating the impact of TDM using stated preferences. *Canadian Public Policy*, 41(1), 86-96.
- Daziano, RA and M Achtnicht. 2014. Forecasting adoption of ultra-low-emission vehicles using Bayes estimates of a multinomial probit model and the GHK simulator. *Transportation Science* 48(4), 671-683.
- Daziano, RA and M Achtnicht. 2014. Accounting for uncertainty in willingness to pay for environmental benefits. *Energy Economics* 44, 166-177.
- Daziano, RA. 2013. Conditional-logit Bayes estimators for the valuation of electric vehicle driving range. *Resource and Energy Economics* 35(3), 429-450.
- Daziano, RA and D Bolduc. 2013. Covariance, identification, and finite-sample performance of the MSL and Bayes estimators of a logit model with latent attributes. *Transportation* 40(3), 647-670.
- Daziano, RA and D Bolduc. 2013. Incorporating pro-environmental preferences towards green automobile technologies through a Bayesian Hybrid Choice Model, *Transportmetrica A: Transport Science* 9(1), 74-106.
- Daziano, RA and **E Chiew**. 2013. On the effect of the prior of Bayes estimators of the willingness-to-pay for electric-vehicle driving range. *Transportation Research Part D: Transport and Environment* 21, 7-13.
- Daziano, RA, L Miranda-Moreno and S Heydari. 2013. Computational Bayesian statistics in transportation modeling: from road safety analysis to discrete choice. *Transport Reviews* 33(5), 570-592.
- Daziano, RA. 2012. Taking account of the role of safety on vehicle choice using a new generation of discrete choice models. *Safety Science* 50, 103-112.
- Daziano, RA and **E Chiew**. 2012. Electric vehicles rising from the dead: data needs for forecasting consumer response toward sustainable energy sources in personal transportation. *Energy Policy* 51, 876-894.
- Daziano, RA and **E Chiew**. 2012. Analyzing a probit Bayes estimator for flexible covariance structures in discrete choice modeling. *Transportation Research Record* 2302, 42-50.

- Raveau, S, R Alvarez Daziano, MF Yáñez, D Bolduc and J de D Ortúzar. 2010. Sequential and simultaneous estimation of hybrid discrete choice models: some new findings. *Transportation Research Record* 2156, 131-139.
- Bolduc, D, N Boucher and R Alvarez-Daziano. 2008. Hybrid choice modeling of new technologies for car choice in Canada. *Transportation Research Record* 2082, 63-71. (2009 TRB Barry McNutt Award)
- Munizaga, MA and R Álvarez Daziano. 2005. Testing mixed logit and probit by simulation. *Transportation Research Record* 1921, 53-62.

#### *Revise and Resubmit*

- Muñoz, B, RA Daziano and A Monzón. Modelling the effect of policy measures for improving cycling for urban transport. Revise and Resubmit at *Transportation Research Part A*.
- Liu, Y, P Bansal, R Daziano and S Samaranayake. A framework to integrate mode choice in the design of mobility-on-demand systems. Revise and Resubmit at *Transportation Research Part C*.

#### *Working Papers*

- Daziano, RA, M Sarrias and B Leard. 2016. Are consumers willing to pay to let cars drive for them? Analyzing response to autonomous vehicles. Resources for the Future (RFF) Discussion paper 16-35.
- Bansal, P, N Sunder and RA Daziano. 2018. Arriving at a decision: a semi-parametric approach to institutional birth choice in India.
- Bansal, P, R Hurtubia, A Tirachini and RA Daziano. Semi-parametric estimates of the valuation of crowding in the New York City subway.

#### *Books*

- Vanek, F, L Angenent, J Banks, RA Daziano and M Turnquist, 2014. *Sustainable Transportation Systems Engineering*. McGraw-Hill Professional, 1<sup>st</sup> Edition (May 16, 2014).

#### *Book chapters*

- Alvarez Daziano, R and E Rivera, 2003. El ABC del Transporte en Santiago. In P. Lanfranco ed., *Muévete por tu ciudad: una propuesta ciudadana para transporte con equidad*, LOM Ediciones, Santiago, Chile. (In Spanish)

#### *Peer-reviewed conference proceedings*

- Bansal, P and RA Daziano. 2018. Influence of Choice Experiment Designs on Eliciting Preferences for Autonomous Vehicles. Accepted for publication at *Transportation Research Procedia*.
- Daziano, RA and B Farooq. 2018. Workshop synthesis: new directions in experimental design. Accepted for publication at *Transportation Research Procedia*.
- Ge, J**, Y Hua, RA Daziano, X Tong and S Chen. 2016. An Overview of the Success Story of Jianguo Electric's Residential Time of Use Program in China and Related Behavior Changes. Proceedings of the Summer Study on Energy Efficiency in Buildings. American Council for an Energy-Efficient Economy (ACEEE). Chapter 6 (Utilities and the Future), 1-12.
- Berri, A and RA Daziano, 2015. Caring for the Environment in Transportation Data Collection and Modeling. *Transportation Research Procedia* 11, 413-421.
- Daziano, RA. 2014. Behavioral response to extreme-weather hazards: from evacuation decisions to supporting resilience investments. Proceeding of the 1<sup>st</sup> International Workshop on the Resilience and Safety of Modern Social Systems. National Graduate Institute for Policy Studies, Tokyo, Japan.
- Bolduc, D and R Alvarez-Daziano. 2010. On estimation of Hybrid Choice Models. In S. Hess and A. Daly (Eds.), *Choice Modelling: the state-of-the-art and the state-of-practice. Proceedings from the Inaugural International Choice Modelling Conference*, Emerald, England, 2010.

- Videla, J and R Álvarez Daziano. 2004. Percepción e Imagen de los Modos de Transporte Público en la Ciudad de Concepción. Proceedings of the XIII PANAM Conference of Traffic and Transportation Engineering, Albany, New York. (In Spanish)
- Videla, J and R Álvarez Daziano. 2003. Introducción de variaciones en los gustos determinísticas en Preferencias Declaradas multimodal. Actas del XI Congreso Chileno de Ingeniería de Transporte, Santiago. (In Spanish)
- Alvarez Daziano, R and MA Munizaga. 2002. Modelación flexible de elecciones discretas: una revisión ilustrada. Actas del XII Congreso Panamericano de Ingeniería de Tránsito y Transporte, Quito, Ecuador. (In Spanish)
- Munizaga, MA and R Álvarez Daziano. 2002. Evaluation of mixed logit as a practical modelling alternative. Proceedings European Transport Conference, Cambridge, UK.
- Alvarez Daziano, R and MA Munizaga. 2001. Modelos mixed logit: antecedentes teóricos y aplicaciones. Proceedings of the IX Chilean Transport Engineering Conference, Concepción, Chile. (In Spanish)
- Munizaga, MA and R Álvarez. 2000. Modelos mixed logit: uso y potencialidades. Proceedings of the XIII PANAM Conference of Traffic and Transportation Engineering, November, Gramado, Brazil. (In Spanish)

### **Other Products**

**Sarrias M** and RA Daziano. 2015. gmn1: multinomial logit with random parameters. R package version 1.0, URL: <http://cran.r-project.org/package=gmn1>. This package implements the maximum (simulated) likelihood estimator with analytical expressions of the gradient for the following models: multinomial or conditional logit (MNL), mixed multinomial logit (MIXL), scale heterogeneity multinomial logit (S-MNL), generalized multinomial logit (G-MNL), latent class logit (LC), and mixed-mixed multinomial logit (MM-MNL).

### **Research Grants and Awards**

#### ***Sponsored***

Title: Pour une communication efficace de l'information relative aux émissions de GES des véhicules au Québec (For an effective communication of GHG emission information from vehicles in the province of Québec). Agency: Fonds de recherche du Québec – Nature et technologies (FRQNT) & Fonds de recherche du Québec – Société et culture (FRQSC). Role: Collaborator (PI: Owen Waygood, Polytechnique Montréal). Knowledge Transfer Partners: Transport Canada, Natural Resources Canada, Ministère des Transports, de la Mobilité Durable, et de l'Électrification des Transports du Québec (Ministry of Transport, Urban Mobility and Electrification of Transportation of Québec). Amount: C\$242,347. Period: 2018-2020.

Title: Active transportation and the emotion-stress-health link: virtual reality for assessing perceptual responses by pedestrians and bicyclists to the built environment. Agency: Center for Transportation, Environment and Community Health (CTECH). Role: PI (Co-PI: So-Yeon Yoon). Amount: \$68,224. Period: 10/01/2018-09/30/2019.

Title: Center for Transportation, Environment and Community Health (CTECH). Agency and Program: DOT's University Transportation Center (UTC) program. Role: Co-PI (PI: Oliver Gao; Co-PIs: Linda Nozick, Samitha Samaranayake, Cornell; other members of the consortium: the University of California, Davis, the University of Texas at El Paso, and the University of South Florida). Amount: \$7,000,000 (expected) over 5 years (2017-2021).

Title: PFI:BIC: Energy Smart Community - Leveraging Virtual Storage to Turn Advanced Metering Infrastructure into a Smart Service System. Agency: National Science Foundation (NSF). Program: Building Innovation Capacity (PFI:BIC), Division of Industrial Innovation & Partnerships. Role: Co-PI

(PI: Edwin Cowen, Co-PIs: Richard Stedman, William Schulze, Robert Thomas, Cornell). Amount: \$1,000,000. Period: 09/01/2015-08/31/2018.

Title: Études des interactions entre les activités de transport, les infrastructures, l'économie, l'environnement et l'aménagement du territoire (Interactions among transportation activities, infrastructure, economy, environment and land use). Agency: Fonds de recherche du Québec – Société et culture (FRQSC). Role: Collaborator (PI: Philippe Barla, Université Laval). Amount: C\$52,807. Period: 2016-2020.

Title: Using visual information to determine the subjective valuation of public space for transportation: application to subway crowding costs in NYC. University Transportation Research Center (UTRC), Region II (New York, New Jersey, and Puerto Rico). Role: PI (Co-PI: Linda Nozick, Cornell). Amount: \$75,000. Period: 09/01/2016-11/30/2017.

Title: Quantification and Analysis of the Decisions of Economically and Environmentally Informed Travelers in Urban Networks. Agency: National Science Foundation (NSF). Program: Civil Infrastructure Systems (CIS). Role: PI (Co-PI: Oliver Gao, Cornell). Amount: \$375,000. Period: 09/01/2015-08/31/2018.

Title: Forecasting evacuation behaviors of coastal communities in response to storm hazard information. Agency: New York Sea Grant (NYSG). Program: Coastal Storm Awareness Program (CSAP). Role: PI (Co-PIs: Linda Nozick, Phil Liu, Jonathon Schuldt, Cornell). Amount: \$150,000. Period: 01/01/2014-12/31/2015.

Title: Analyzing Willingness to Improve the Resiliency of New York City's Transportation System. University Transportation Research Center (UTRC), Region II (New York, New Jersey, and Puerto Rico). Role: PI (Co-PI: Linda Nozick, Cornell). Amount: \$80,000. Period: 03/01/2014-02/31/2014.

Title: CAREER Advanced demand estimators for energy-efficiency in personal transportation. Agency: National Science Foundation (NSF). Program: Faculty Early Career Development (CAREER), Environmental Sustainability, Chemical, Bioengineering, Environmental, & Transport Systems Division (CBET). Role: PI. Amount: \$409,565. Period: 02/01/2013-12/31/2018.

Title: Data collection and econometric analysis of the demand for nonmotorized transportation. Agency: University Transportation Research Center (UTRC), Region II (New York, New Jersey, and Puerto Rico). Role: Sole PI. Amount: \$80,000. Period: 10/01/2012-12/31/2013.

### ***Other Funds***

Title: What is the Subjective Cost of Carbon? Exploring the Economic Evaluation of Environmental Information From a Cognitive, Decision-Based Approach. Agency: Institute for the Social Sciences at Cornell (ISS). Program: ISS Small Grants. Role: PI. Amount: \$9,000. Period: 01/01/2015-12/31/2015.

Title: Modeling evacuation decisions through survival regressions. Agency: ELI Undergraduate Research Funds, Cornell University. Role: Faculty Advisor. Amount: \$4,300. Period: 05/15/2015-7/31/2015.

Title: Statistical Analysis of Extreme-Weather Disruptions to the Users of the Transportation System in the Northeast. Agency: ELI Undergraduate Research Funds, Cornell University. Role: Faculty Advisor. Amount: \$4,500. Period: 05/15/2015-7/31/2015.

Title: Electric Car Objective, Behavioural Choice Analysis for Transport (ECO BEST) – Modelli di acquisto di auto elettriche e a carburanti alternativi: analisi degli aspetti comportamentali, tecnologici, ambientali e valutazione dell'impatto delle politiche tramite analisi di scenario. Agency: Roma Tre

University, Trieste University. Role: Collaborator (PI: Edoardo Marcucci, Roma Tre University). Amount: €12,000 (Daziano's portion: €6,000). Period: 04/01/2012-04/01/2014.

Title: Exploring Mechanisms for Improving Resiliency of the Transportation System of New York City. Agency: ELI Undergraduate Research Funds, Cornell University. Role: Faculty Advisor. Amount: \$1,000. Period: 10/01/2013-12/31/2013.

Title: Econometric analysis of vehicle ownership and usage. Agency: ELI Undergraduate Research Funds, Cornell University. Role: Faculty Advisor. Amount: \$1,200. Period: 10/01/2012-12/31/2012.

Travel Funds: CEE delegation to the Smart Transportation - A CEAA Smart Cities Event, Cornell Engineering Alumni Association, New York City. 10/15/2012-10/16/2012. Amount: \$900.

Travel Funds: Cornell delegation to the Technion-Cornell Built Environment workshop, New York City. 10/15/2012-10/16/2012. Amount: \$1,250.

### **Invited Speaker in Seminars and Workshops**

2018 **Energy Center EC-FCFM** of the College of Mathematical and Physical Sciences of the University of Chile, Workshop on Electromobility Challenges, August, Santiago, Chile | **IATBR** (International Association of Travel Behavior Research), Workshop in honor of Daniel McFadden, University of California at Santa Barbara. July, Santa Barbara, California | **Durham University**, Environmental and Energy Economics, Business School. May, Durham, UK | **Choice Modelling Centre (CMC)**, University of Leeds, Choice Modelling Seminar. May, Leeds, UK | **Katholieke Universiteit (KU) Leuven**, Faculty of Economics and Business, Econometrics and Quantitative Methods seminar. March, Leuven, Belgium | **Catholic University of the North**, Economics Seminar. March, Antofagasta, Chile | **University of Leeds**, Institute for Transport Studies, Transport Seminar. February, Leeds, UK | **IOER** (Leibniz Institute of Ecological Urban and Regional Development), Transport and Energy Economics Seminar, January, Dresden, Germany | **DLR** (German Aerospace Center), Institute for Transport Research Seminar, January, Berlin, Germany | **TU Dresden** (Technische Universität Dresden), Transport Economics Seminar. January, Dresden, Germany | **Charles University**, CERGE-EI (Center for Economic Research and Graduate Education - Economics Institute), Energy and Environmental Economics Seminar. January, Prague, Czechia.

2017 **University of Pennsylvania**, Energy Economics and Finance Seminar, Kleinman Center for Energy Policy. November, Philadelphia, PA | **University of Pennsylvania**, Graduate Seminar at the Penn Institute for Urban Research. November, Philadelphia, PA. | **New York University**, Tandon School of Engineering, C2Smart - Connected Cities for Smart Mobility Toward Accessible and Resilient Transportation Seminar, November, New York, NY | **CCHIT** (Chilean Conference of Transportation Engineering and Logistics), Plenary Speaker, October | **HEC Montréal** (Business School of Université de Montréal), CIRRELT Seminar, October 2, Montréal, QC | **Cornell University**, Systems Engineering, Systems Seminar/Ezra's Roundtable. September 1, Ithaca, NY | **UC Berkeley**, NSF Workshop: Advancing the science of Transportation Demand Modeling, April 20-21, Berkeley, CA | **5<sup>th</sup> International Choice Modelling Conference (ICMC)**: Workshop on Best Practices for Estimating Advanced Choice Models based on Large Data, April 3-5, Cape Town, South Africa.

2016 **Automated Vehicles Symposium**, Breakout session 15: behavioral experiments for modeling adoption and use of automated vehicles, San Francisco, CA, July 2016. | **Catholic University of Chile**, Department of Transportation Engineering and Logistics, Santiago, Chile, June. | **University of Chile**, Department of Civil Engineering, Santiago, Chile, June. | 95<sup>th</sup> Transportation Research Board of the National Academies, Annual Meeting, Presiding Workshop "World's Next Top Choice Models", Washington D.C., January.

2015 **New York Institute of Technology**, Transportation Technology Symposium: Innovative Mobility Solutions, November, New York, NY | **Resources for the Future**, Internal Seminar, Washington, DC, October. | **Cornell University**, Charles H. Dyson School of Applied Economics and Management, Graduate Student Association Seminar, September. | **Université de Montréal**, Hands on Sustainable

- Urban Mobility, Canada-Germany Workshop & CIRRELT (Interuniversity Research Centre on Enterprise Networks, Logistics and Transportation) Annual Conference, Montréal, Canada. May. | **McGill University**, Department of Civil Engineering and Applied Mechanics, Montréal, Canada. May. | **Catholic University of Chile**, Department of Transportation Engineering and Logistics, Santiago, Chile, April. | **University of Maryland**, Workshop: Autos, People and Policies (APPs): Addressing the Issues of the New Millennium, School of Civil and Environmental Engineering, January.
- 2014 **National Graduate Institute for Policy Studies**, 1<sup>st</sup> International Workshop on the Resilience and Safety of Modern Social Systems, Tokyo, Japan, December. | **The University of Queensland**, School of Economics, School Seminar Series, Brisbane, Australia, November. | **Rochester Institute of Technology**, Golisano Institute for Sustainability, Weekly Speaker Series, March. | **Cornell University**, Energy Seminar, March 2014.
- 2013 Zentrum für Europäische Wirtschaftsforschung (**ZEW**, Centre for European Economic Research), Mannheim, Germany, December. | **Georgia Tech**, National Center for Transportation Systems Productivity and Management, School of Civil and Environmental Engineering, Transportation Weekly Speaker Series, November. | **Cornell University**, Charles H. Dyson School of Applied Economics and Management, 1<sup>st</sup> Cornell Environmental and Energy Economics ‘Boot Camp’, August. | Università degli Studi Roma Tre (**Roma Tre University**), Facoltà di Scienze Politiche (Faculty of Political Science), Rome, Italy, May.
- 2012 **Cornell Engineering Alumni Association**, Smart Transportation - A CEAA Smart Cities Event, New York, NY December. | **Cornell University**, Center for Applied Mathematics Colloquium, November. | **Cornell University**, School of Civil and Environmental Engineering, Environment Seminar, November. | **UC Berkeley**, School of Civil and Environmental Engineering, May. | **UC Davis**, School of Civil and Environmental Engineering, June. | 91<sup>st</sup> Transportation Research Board of the National Academies, Annual Meeting, Workshop on recent Advances in Choice Modeling: Theoretical Developments and Practical Applications, Washington D.C., January 2012.
- 2011 **Universidad de Chile**, School of Civil Engineering, Santiago, Chile. November. | **Cornell University**, Engineering and Economics of Electricity Research Group, November. | École Polytechnique Fédérale de Lausanne **EPFL**, Transport and Mobility Laboratory, Lausanne, Switzerland, July. | Zentrum für Europäische Wirtschaftsforschung (**ZEW**, Centre for European Economic Research), Mannheim, Germany, June. | **Cornell University**, Environmental and Energy Economics Work Group, April. | **McGill University**, Department of Civil Engineering and Applied Mechanics, Montréal, Canada. January.
- 2010 **Universidad de Chile**, School of Civil Engineering, Santiago, Chile. November 2010.

#### **Conferences (Presenter)**

- 2018 15<sup>th</sup> International Conference on Travel Behavior Research IATBR, July 15-20, Santa Barbara, CA. | Interdisciplinary Choice Workshop (ICW 2018), August 7-10, Santiago, Chile
- 2017 5<sup>th</sup> International Choice Modelling Conference (ICMC), April 3-5, Cape Town, South Africa. | 96<sup>th</sup> Transportation Research Board Annual Meeting (TRB), January 8-12, Washington D.C.
- 2016 Automated Vehicles Symposium, July 18-21, San Francisco, CA. | 2016 International Transportation Economics Association (ITEA) Annual Conference and School on Transportation Economics, June 13-17, Santiago, Chile. | 95<sup>th</sup> Transportation Research Board Annual Meeting (TRB), January 11-15, Washington D.C.
- 2015 INFORMS Annual Meeting, November 1-4, Philadelphia, PA. | 14<sup>th</sup> International Conference on Travel Behavior Research IATBR, July, Windsor, UK. | 2015 Fourth International Choice Modelling Conference, May, Austin, TX. | 2015 94<sup>th</sup> Transportation Research Board Annual Meeting (TRB), January 11-15, Washington D.C.
- 2014 10<sup>th</sup> International Conference on Transport Survey Methods. November 16-21, Leura, Australia
- 2013 XVI Congreso Chileno de Ingeniería de Transporte (Chilean Conference on Transportation Engineering), October 21-25, Santiago, Chile. | 2013 Kuhmo Nectar Conference on Transport Economics, July 10-12, Northwestern University, Evanston, IL. | Third International Choice Modelling

Conference, July 3-5, Sydney, Australia. | 2013 Annual Conference of the European Association of Environmental and Resource Economists, June 26-29, Toulouse, France. | 92<sup>nd</sup> Transportation Research Board Annual Meeting (TRB), January 14-17, Washington D.C.

2012 XVII Pan-American Conference of Traffic and Transportation Engineering, September 24-27, Santiago, Chile. | 2012 13<sup>th</sup> International Conference on Travel Behavior Research IATBR, July 15-20, Toronto, Canada. | 2012 Kuhmo Nectar Conference on Transport Economics, June 21-22, Berlin, Germany. | 2012 91<sup>st</sup> Transportation Research Board Annual Meeting (TRB), January 22-26, Washington D.C.

2011 16<sup>th</sup> International Conference of Hong Kong Society for Transportation Studies, December 17-20, Hong Kong. | 2011 9<sup>th</sup> International Conference on Transport Survey Methods: Scoping the Future while staying on Track. November 14-18, Termas de Puyehue, Chile. | 2011 21<sup>st</sup> Annual Meeting of the Canadian Resource and Environmental Economics Study Group, September 23-25, Québec City, Canada. | 2011 Kuhmo Nectar Conference on Transport Economics, June 29-30, Stockholm, Sweden. | 2011 Second International Choice Modelling Conference, July 3-6, Oulton, Leeds, UK.

2010 XVI Pan-American Conference of Traffic and Transportation Engineering, July 15-18, Lisbon, Portugal. | 2010 12th World Conference on Transport Research (WCTR), July 11-15, Lisbon, Portugal. | 2010 Kuhmo Nectar Conference on Transport Economics 2010, July 8-9, Valencia, Spain. | 2010 Doctoral Seminar on Transportation Modeling at the 2010 Annual Meeting of the Transportation Research Board (TRB), January 10-14, Washington D.C.

2009 XIII Euro Working Group on Transportation Meeting, September 23-25, Padua, Italy. | 2009 EAERE-FEEM-VIU European Summer School in Resources and Environmental Economics: Economics, Transport and Environment, Venice International University, July 5-11, Venice, Italy. | 2009 43rd Annual Meeting of the Canadian Economics Association, May 29-31, Toronto, Ontario. | 2009 Inaugural International Choice Modelling Conference, March 30-April 1, Harrogate, UK.

2008 87th Transportation Research Board (TRB) Annual Meeting, January 13-17, Washington D.C.

2007 41st Annual Meeting of the CEA, June 1-3, Dalhousie University, Halifax, Nova Scotia.

2004 XIII Pan-American Conference of Traffic and Transportation Engineering, September 26-29 Albany, NY.

2003 X Congreso Chileno de Ingeniería de Transporte, October 20-24, Santiago, Chile.

2002 XII Pan-American Conference of Traffic and Transportation Engineering, November 18-21, Quito, Ecuador.

2001 IX Congreso Chileno de Ingeniería de Transporte, October 18-22, Concepción, Chile.

2000 XI Pan-American Conference of Traffic and Transportation Engineering, November 19-23, Gramado, Brazil.

### **Other Studies and Qualifications**

*Venice International University*, Venice, Italy, July 2009

EAERE-FEEM-VIU European Summer School in Resources and Environmental Economics: Economics, Transport and Environment.

*Alma Mater Studiorum-University of Bologna*, Bologna, Italy, June 2009

EAERE International Summer School Program 2009: “Discrete Choice Models: Theory and Applications to Environment, Landscape, Transportation and Marketing”, advanced module.

### **Industry Collaborations**

ENEL (Chilean electric power corporation), 2017. Analysis of a corporate program that introduced a special financing plan for ENEL Group employees in Santiago, Chile for the purchase of electric cars. The program includes free charging in the corporate building, installation of a charger at home, and maintenance throughout the term of the plan. Employees surveyed in November-December 2017.

NYSEG (New York State Electric & Gas Corp.), 2017-2018. NYSEG made available a proprietary choice-based conjoint analysis micro-dataset for modeling customers' response to electricity storage at home.

The Boeing Company, 2014. Boeing made available a proprietary Stated-Preference micro-dataset based on a meta-search engine for modeling itinerary choice and willingness to pay for air travel.

The Ford Motor Company, 2012. Analysis of commuting behavior in three cities in China. Internship for one graduate student (Summer 2012)

### **Advising and Mentoring**

#### **PhD Graduates, as Primary Advisor**

Esther Chiew, Civil and Environmental Engineering, Cornell University, Dissertation: "Confidence intervals for willingness to pay and beyond: a comparative analysis", co-advisors: Linda Nozick (CEE), Huseyin Topaloglu (ORIE), graduated in 2015. Current position: Consultant at the World Bank.

Chen Wang, Civil and Environmental Engineering, Cornell University, Dissertation: "Three essays on the application of discrete choice models with discrete-continuous heterogeneity distributions", co-advisors: Oliver Gao (CEE), Shanjun Li (AEM), graduated in 2016. Current position: Trading strategist at Trexquant Investment LP.

Yutaka Motoaki, Civil and Environmental Engineering, Cornell University, Dissertation: "Three essays on discrete choice modeling with latent constructs", co-advisors: Linda Nozick (CEE), Felix Thoemmes (PSYC), graduated in 2016. Current position: Researcher at Idaho National Laboratory's Energy Storage and Advanced Vehicles Department.

#### **PhD Graduates, as Minor Committee Member**

Yiwei Wang, Applied Economics and Management, Cornell University, dissertation: "Essays on Regulation and its Impact on Industry and Taxation: Studies on CAFE Standards", primary advisor: William Schulze (AEM), co-advisors: Shanjun Li (AEM), graduated in September 2016

Mauricio Sarrias, City and Regional Planning, Cornell University, Dissertation: "Three Essays on Continuous and Discrete Spatial Heterogeneity", primary advisor: Kieran Donaghy (CRP), co-advisors: Nancy Brooks (AAP), graduated in May 2016

Andrew Waxman, Applied Economics and Management, Cornell University, graduated in 2015, primary advisor: Antonio Bento (AEM), co-advisors: Shanjun Li (AEM)

Yohannes Kesete, Civil and Environmental Engineering, Cornell University, Dissertation: "Managing Natural Disaster Risk Through Insurance", primary advisor: Linda Nozick (CEE), co-advisor: Tom O'Rourke (CEE), graduated in 2015

Álvaro Fernández, Civil Engineering, Polytechnic University of Madrid, graduated in 2012, Dissertation: "El potencial de las variables latentes en modelos explicativos del uso de la bicicleta". Current position: Assistant Professor, Civil Engineering, European University of Madrid.

#### **MSc Graduates, as Minor Committee Member**

Jing Ge, Human Environment Relations, Sustainable Design Concentration, Thesis: "Understanding urban residential electricity usage behavior under time-of-use pricing: a case study in Jiangsu Province, China", primary advisor: Ying Hua (CHE), graduated in 2015

#### **PhD Advisees, as Primary Advisor**

Prateek Bansal, Civil and Environmental Engineering, Cornell University, Second Year

Saeedeh Sadeghi, Systems Engineering, Cornell University, First Year

WangWei (Will) Wu, Systems Engineering, Cornell University, First Year

### **MSc Advisees, as Primary Advisor**

Jiayi Sun, Civil and Environmental Engineering, Cornell University, Second Year  
Sijia Wang, Civil and Environmental Engineering, Cornell University, Second Year  
Qingyuan Zhao, Civil and Environmental Engineering, Cornell University, Second Year  
Lan Liu, Civil and Environmental Engineering, Cornell University, Second Year

### **PhD Advisees, as Co-Advisor**

Begoña Muñoz, Civil Engineering, Polytechnic University of Madrid, Fourth Year, primary advisor:  
Andrés Monzón (CEE, Polytechnic University of Madrid)

### **PhD Advisees, as Committee Member**

Mazen Salah Danaf, Civil and Environmental Engineering, Massachusetts Institute of Technology (MIT),  
dissertation: “Preference Estimation and Personalization for Smart Mobility”, advisor: Moshe  
Ben-Akiva

Avralt-Od Purevjav, Applied Economics and Management, Cornell University, Third Year, primary  
advisor: Shanjun Li

Hao Wang, Civil and Environmental Engineering, Cornell University, Third Year, primary advisor: Linda  
Nozick

**MEng Advisees** CEE (2011: 3; 2012: 1; 2013: 7; 2014: 5; 2015: 8; 2016: 12); Systems Engineering  
(2015: 8; 2016: 4)

### **Teaching**

Microeconometrics of discrete choice CEE6640 (Formerly CEE6065), 3 Cr., Spring 2011  
(Enrollment:11), 2012 (9), 2013 (7), 2014S (20), 2014F(6), 2015 (19), 2016 (23)

Comprehensive review, from the fundamentals to advanced topics in microeconometrics of discrete choice. The empirical examples and case studies are interdisciplinary (marketing, industrial organization, telecommunications, and environment) but applications in travel demand are emphasized, including interactions with other systems (adoption of sustainable energy sources and eco-friendly behavior). The class attracts graduate students not only from civil and environmental engineering, but also from systems engineering, economics, applied economics and management, operations research, and city and regional planning.

Transportation Energy Systems CHEME6667/CEE6055, 1 Cr., Fall 2011 (Enrollment: 37), 2012 (21),  
2013 (22), 2015 (27; 3 out of 8 lectures)

The course focuses on understanding the link between transportation demand and energy consumption and on how to build a path toward conversion to sustainable energy sources. Analytical tools from transportation economics and engineering are covered to assess the energy consumption and environmental effects of long-term projects over complex, large-scale transportation systems. This course complements ‘Analysis of Sustainable Energy Systems’ (CHEME6660; Instructor: Jefferson Tester), which is part of the Sustainable Energy Systems and the Energy Economics and Engineering programs (both part of the School of Chemical and Biochemical Engineering).

Engineering Economics and Management CEE/ENGRD3230, 3 Cr., Spring 2013 (80), 2014 (88), 2015  
(70), 2017 (71)

In this course students learn techniques to choose among competing design solutions from an economic perspective. Course contents include diverse topics of decision analysis and engineering economy (project evaluation), such as interest, money-time relationships and equivalent worth, rates of return, incremental analysis, accounting for depreciation and taxes, inflation, replacement decisions, dealing with uncertainty, and multi-attribute decision making.

Foundations of Complex Systems SYSEN6000, 3 Cr., Spring 2017 (6)

One-week module on rational decision making for systems engineering.

Systems Engineering Design Project SYSEN5900/SYSEN5960, 1-6 Cr., Fall 2015 (27)

Design of a sustainable school in Ghana. Co-advised with Siritetta Simoncini.

### Transportation Systems Design CEE4640, 3 Cr., Spring 2012 (31)

Analysis of capacity and operational design of transportation systems, including analytical modeling techniques underlying design criteria. Evaluation of alternative designs. Management and operating policies, including congestion pricing. Facility location decisions, networks, and investment strategies.

Co-taught with Mark Turnquist. Daziano's portion: 8 weeks.

### Engineering Freshman Advising Seminar ENGRG 1050, Fall 2012 (19, ORIE), Fall 2016 (13, CEE)

First-year engineering students meet in groups of 18 to 20 students weekly with their faculty advisors. Discussions may include the engineering curriculum and student programs, what engineers do, the character of engineering careers, active research areas in the college and in engineering in general, and study and examination skills useful for engineering students. Groups may visit campus academic, engineering, and research facilities.

### Other Teaching Activities

Summer course on "Microeconometrics of Limited Dependent Variables with Applications to Transportation Demand and the Environment", organized by the Québec Inter-University Center for Social Statistics and the Centre for Data and Analysis in Transportation (CDAT), Department of Economics, Université Laval, Québec City, May 2014. (MSc/PhD level).

Short course on "Sustainability, Energy Systems, and Transportation in Smart Cities". Università degli Studi Roma Tre (Roma Tre University), Facoltà di Scienze Politiche. May-June 2013. (10 lectures at the PhD level).

### Service

Journal of Choice Modelling, Guest Editor for a special issue on the estimation of complex choice models, 2017-2018.

### Departmental Service

Associate Director of the Engineering Management program, 2016-present

Cornell representative for the meetings of the Master of Engineering Management Program Consortium (MEMPC) held at Dartmouth (Fall 2016), Stanford (Spring 2016), MIT (Spring 2015) and Northwestern (Fall 2014), and organizer of the meeting at Cornell (Fall 2015)

Engineering Freshman Advisor, 2012-2013 (19 advisees), 2016-2017 (11 advisees)

Member, CEE Academic Standards, Petitions, and Credit CASPAC Committee, since 2012

Graduate Student Admissions, Spring 2012, Spring 2013, Fall 2015

### Graduate-Field Service

Systems Engineering, Executive Committee, since Fall 2015

Curriculum Committee for the new PhD Program in Systems Engineering, since Fall 2015

Research Committee, Systems Engineering, since Fall 2016

### Professional Service

National Science Foundation (NSF), Civil, Mechanical and Manufacturing Innovation Division (CMMI), Civil Infrastructure Systems Program (CIS), Grant reviewer

National Science Foundation (NSF), Environmental Sustainability, Chemical, Bioengineering, Environmental, & Transport Systems Division (CBET), Grant reviewer

National Science Foundation (NSF), Decision, Risk and Management Sciences (DRMS) Division of Social and Economic Sciences, Grant reviewer

Swiss National Science Foundation (SNSF), Grant reviewer

Chilean National Science Foundation (CONICYT), Grant reviewer for National Fund for Scientific and Technological Development (FONDECYT) competition, Fall 2014

Fonds de recherche du Québec – Nature et technologies FRQNT. Grant reviewer, Group Research Grants in Industrial Engineering (Projet de recherche en équipe – Génie industriel), Spring 2013, Spring 2014, Spring 2017.

Eric Pas Dissertation Prize awarded by the International Association for Travel Behaviour Research (IATBR). Reviewer, Spring 2013, Fall 2013, Fall 2014.

Fonds de recherche du Québec – Nature et technologies FRQNT. Member, Scholarship Evaluation Committee, Spring 2012.

### **Referee Work**

Journal of Applied Econometrics; Journal of Environmental Economics and Management; Journal of Marketing Management, Journal of Retailing and Consumer Services, Transportation Research Part A; Transportation Research Part B; Transportation Research Part C; Transportation Research Part D; Transportation Research Part F; Energy Economics; Energy Policy; Energy Efficiency; Transportation; Transportation Science; Transport Policy; Safety Science; Transportmetrica; Networks and Spatial Economics; Climatic Change; Journal of Choice Modelling; L'Actualité Économique; Sustainability; Transportation Research Record; International Journal of Sustainable Transportation; Australian Journal of Agricultural and Resource Economics

International Choice Modelling Conference; Conference on Advanced Systems for Public Transport (CASPT); Annual Meeting of the Transportation Research Board; Conference of the International Association for Travel Behaviour Research (IATBR); Congreso Chileno de Ingeniería de Transporte - Chilean Transportation Engineering Conference

### **Non Academic Professional Experience**

#### ***Consulting***

Daziano has served as consultant in consumer choice modeling and demand analysis in areas such as transportation and sustainable tourism.

*Blackstone Corporation Resource Management & Tourism*, Toronto, Canada 2010. Daziano worked in a project commissioned by the Inter-American Development Bank and the Government of Bolivia that aimed at negotiating a \$20 million loan for developing a national community-based tourism program. The project resulted in successful negotiation of the loan.